

What is claimed is:

1. A low resistance value resistor comprising:
a resistor body comprised by a resistive alloy;
5 at least two electrodes, comprised by metal strips having
a high electrical conductivity, formed separately on one surface
of the resistor body; wherein
the metal strips are affixed on the resistor body by means
of rolling and/or thermal diffusion bonding.
- 10 2. A low resistance value resistor according to claim 1,
wherein a fused solder layer is formed on a surface of each electrode
comprised by the metal strip.
- 15 3. A low resistance value resistor according to claim 1,
wherein a portion of the resistor body is trimmed by removing a
portion of the body material along a direction of current flow
between the electrodes to adjust a resistance value.
- 20 4. A low resistance value resistor according to claim 3,
wherein trimming is performed by shaving a portion of the body
material in a thickness direction.
5. A low resistance value resistor according to claim 3,
25 wherein trimming is performed by removing a corner portion of the
body material along a longitudinal direction.
6. A low resistance value resistor comprising:

a resistor body comprised by a plate shaped resistive alloy;
at least two electrodes, comprised by metal strips having
a high electrical conductivity, affixed to the resistor body by
means of rolling and/or thermal diffusion bonding; wherein

5 a thickness of the electrode is not less than a 1/10 fraction
of a thickness of the resistor body.

7. A low resistance value resistor according to claim 6,
wherein said two electrodes are disposed at both ends of a first
10 surface of the resistor body, and two second electrodes are disposed
at both ends of a surface opposite to the first surface having the
electrodes.

8. A low resistance value resistor according to claim 6,
15 wherein a fused solder layer is disposed on each electrode surface.

9. A low resistance value resistor according to claim 7,
wherein a wire site is formed on each second electrode for
connecting a wire for voltage measurements.

20 10. A low resistance value resistor according to claim 6,
wherein a resistivity of the electrode comprised by the high
electrical conductivity metal strip is not less than a 1/150
fraction and not more than a 1/2 fraction of a resistivity of the
25 resistor body.

11. A low resistance value resistor according to claim 6,
wherein a material of the resistor body comprises one of:

copper-nickel alloy, nickel-chromium alloy, iron-chromium alloy, manganese-copper-nickel alloy, platinum-palladium-silver alloy, gold-silver alloy, and gold-platinum-silver alloy.

5 12. A low resistance value resistor according to claim 6, wherein said resistor body is trimmed to adjust a resistance value by removing a portion thereof along a direction of current flow between the electrodes.

10 13. A low resistance value resistor comprising:
 a resistor body comprised by a plate shaped resistive alloy;
 at least two electrodes, comprised by metal strips having high electrical conductivity, formed separately on one surface of the resistor body; and
15 an insulation layer for covering a portion of said surface between said electrodes.

 14. A low resistance value resistor according to claim 13, wherein said resistor body is trimmed to adjust a resistance value
20 by removing a portion thereof along a direction of current flow between the electrodes.

 15. A low resistance value resistor according to claim 13, wherein an insulation layer is further provided for covering
25 another surface opposite to the surface having the electrodes.

 16. A low resistance value resistor according to claim 13, wherein said insulation layer comprises an insulative material,

which is coated on specific locations of the resistor body.

17. A low resistance value resistor according to claim 13,
wherein said insulation layer comprises an insulative material,
5 which is adhered on specific locations of the resistor body.

18. A low resistance value resistor according to claim 13,
wherein said insulation layer comprises one of: an epoxy resin,
an acrylic resin, a fluorine resin, a phenol resin, a silicone resin,
10 and a polyimide resin.

19. A low resistance value resistor according to claim 13,
wherein a material of the resistor body comprises one of:
copper-nickel alloy, nickel-chromium alloy, iron-chromium alloy,
15 manganese-copper-nickel alloy, platinum, palladium-silver alloy,
gold-silver alloy, and gold-platinum-silver alloy.

20. A low resistance value resistor according to claim 13,
wherein said electrode comprises copper or an alloy containing
20 copper.